



INTELLIGENT CONTROL PANEL

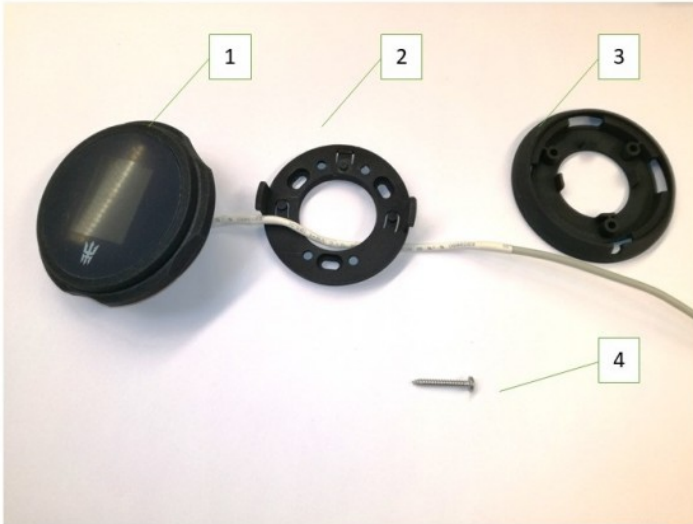
---

<b>Control Panel installation - Parts</b> .....	2
.....	2
<b>Control Panel Installation - Steps</b> .....	3
.....	3
<b>Control Panel functions - Control Panel functions</b> .....	5
.....	5
<b>Control Panel functions Combi/40 EA - Control Panel functions Combi/ 40 EA</b> .....	7
.....	8
<b>Wallas Remote application and Control Panel connection - Wallas Remote application and Control Panel connection</b> .....	9
.....	9
<b>Control Panel - SW update</b> .....	13
.....	13



## Parts

### Installation





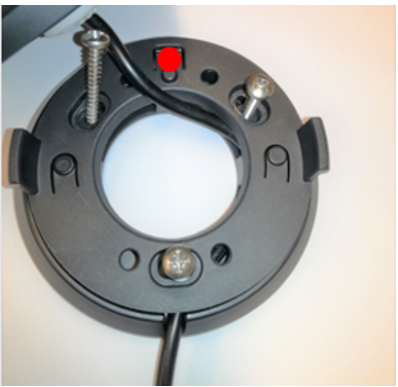



1. Control panel
2. Assembly plate
3. Wall assembly
4. 3pcs

29.6.2018

Control Panel installation



# Steps

<p>Step 1. Install cable into Wall assembly plate.</p>	<p>Step2. Install assembly plate. (Wall assembly plate is only needed in surface assembly) NOTE! RED DOT UPSIDE.</p>	<p>Step3. Install screws 3 pcs. Pull carefully extra cable out. NOTE! RED DOT UPSIDE.</p>
		
<p>Step 4. Snap Control panel. NOTE! do not snap before plate is in right position.</p>	<p>Step 5. Connect cable into heater. To start using: - rotate the wheel - select by pressing top of panel ( rocker switch)</p>	<p>Hole assembly: Wall assembly plate is not needed. Drill opening for cable. Min. 24 mm to allow free movement for cable rubber.</p>
		

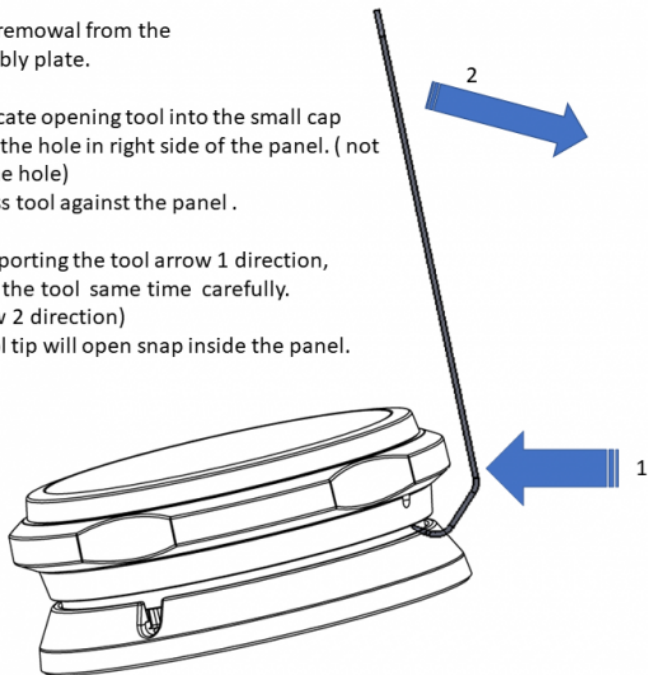
Panel removal from the Assembly plate.

1. Locate opening tool into the small cap under the hole in right side of the panel. ( not into the hole)

- Press tool against the panel .

2. Supporting the tool arrow 1 direction, bend the tool same time carefully. (arrow 2 direction)

=> Tool tip will open snap inside the panel.

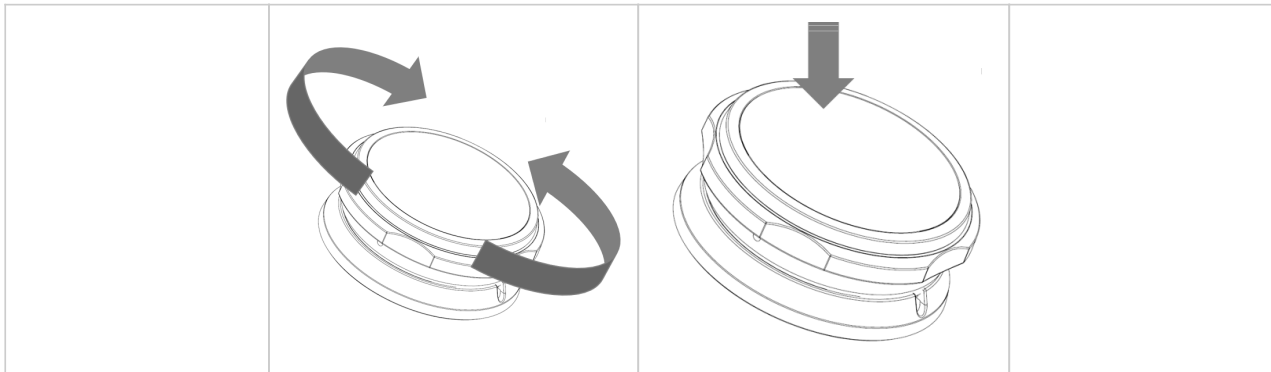


# Control Panel functions

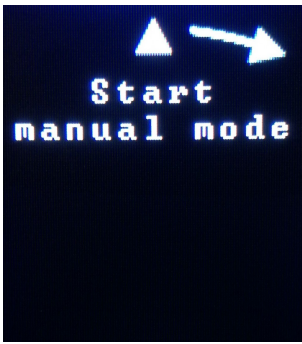
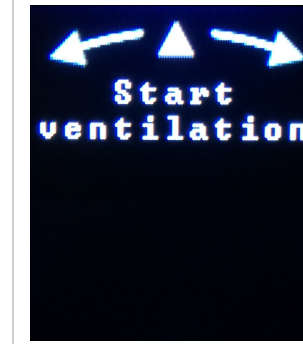
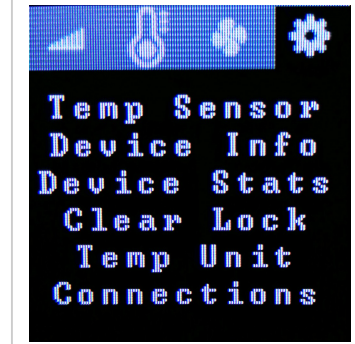
## Intelligent Control Panel

At first, make sure that the Intelligent Control Panel is assembled correctly with the assembly plate ( see assembly instructions). And connected into the Wallas unit. This manual refers to Control panel SW 1.0.53.

The Control Panel is operated by rotating the Control Ring and making selection by pressing the button in the top of the display.




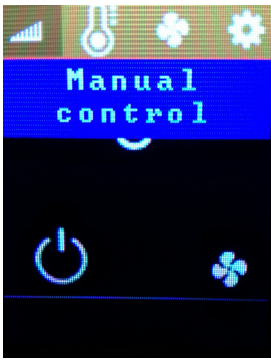
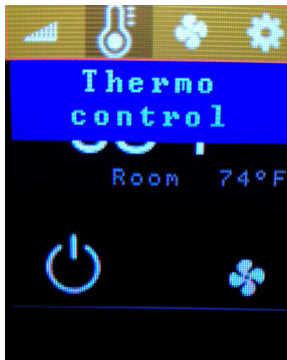
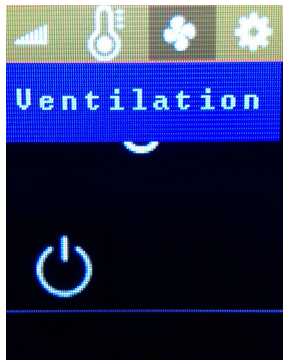
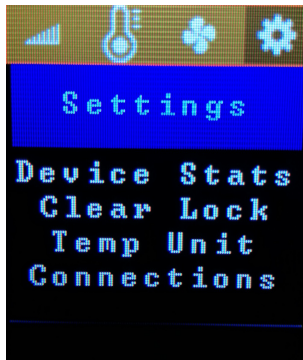
After powering the panel for the first time, turn the control ring and your display will appear similar to the images below.

			
<p>View modes by rotation control ring</p>	<p>Select a function by pressing the button</p>	<p>Last mode is settings (gear) when selected this displays is shown.</p>	<p>Press button again and you can move in top menu.</p>

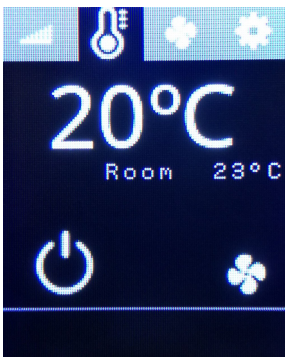
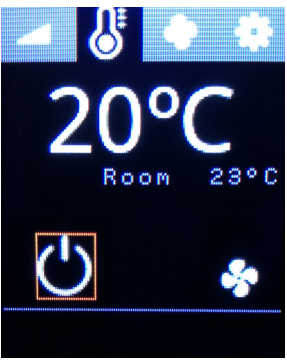
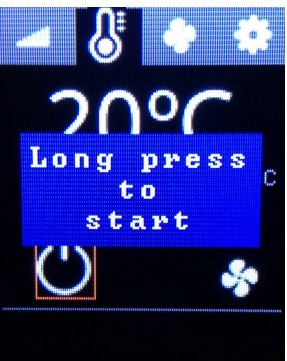
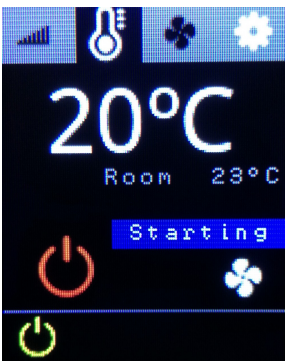
Note: Wallas unit's starting procedure will take few minutes (5-8 minutes). To get familiar with the Control Panel's functionality, select Settings Menu (gear icon).

By pressing the button again it will open the main menu displays.


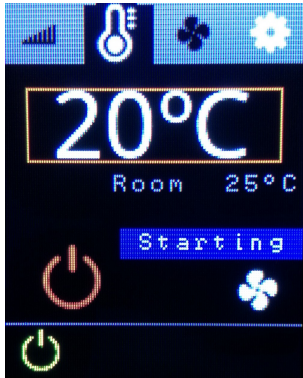

Display areas:		Main menu (selectable)
		Temperature target (selectable)
		Room Temperature
		Heater status
		ON/OFF and ventilation fan boost (selectable)
Info bar : On/Off , flame, info, lock, heater power %		

			
<p>Manual control</p> <ul style="list-style-type: none"> <li>- heater power is manually controlled</li> <li>- power levels 1-6 (6 is highest)</li> </ul>	<p>Thermo control</p> <ul style="list-style-type: none"> <li>- set the desired target temperature</li> <li>- heater controls the power level automatically</li> </ul>	<p>Ventilation</p> <ul style="list-style-type: none"> <li>- ventilation fan speed is set</li> <li>- speed levels 1-6 (6 is highest)</li> </ul>	<p>Settings</p> <ul style="list-style-type: none"> <li>- See details below</li> </ul>

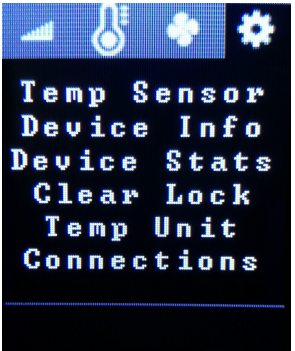
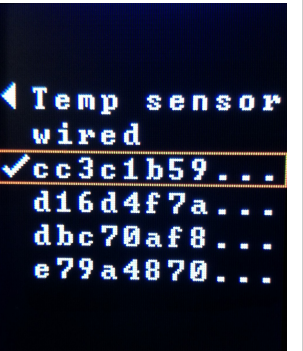
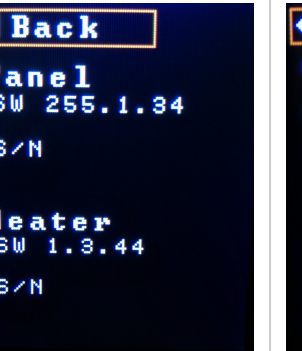
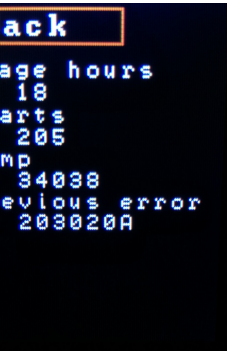
**Example: start heater in thermo control mode.**

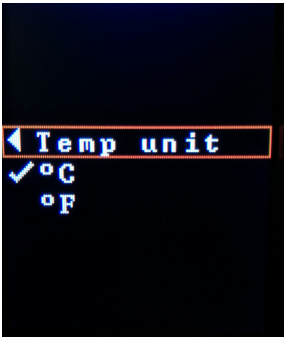
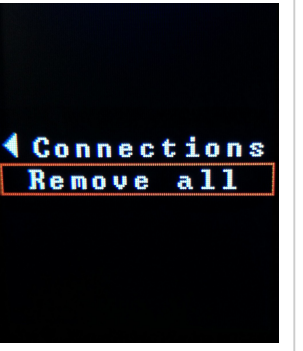
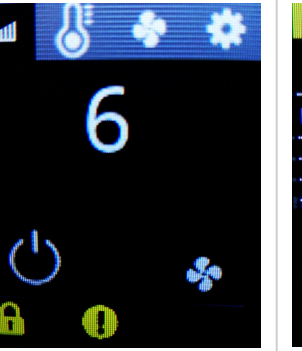
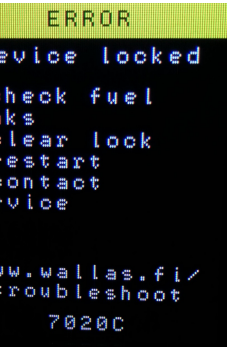
			
Select thermo control mode from the top menu.	Rotate to set the orange selection square around the start icon and select.	Confirm selection with long press on top of panel. (long press is for child safety)	Device is started and <i>starting</i> indication text is shown.



			
<p>After few minutes heater is ignited and flame indicator is shown. Heater will start increasing power.</p>	<p>Scroll the selection square around the temperature target and press the button.</p>	<p>When temp selection is active and you can change temperature target setting by rotating the Control Ring.</p>	<p>Heater status bar indicates it's state</p> <ul style="list-style-type: none"> <li>- starting</li> <li>- stopping</li> <li>- paused</li> </ul>

### Settings:



			
<p>Settings menu</p> <ul style="list-style-type: none"> <li>- you can scroll and select the row. For example, select "Temp Sensor".</li> </ul>	<p>Temp sensor</p> <ul style="list-style-type: none"> <li>-wired is sensor hardwired to heater unit.</li> <li>- wireless sensors are listed by sensor address.</li> <li>-select any sensor to measure room temperature.</li> </ul>	<p>Device Info</p> <ul style="list-style-type: none"> <li>- shows you heater software versions.</li> </ul>	<p>Device Stats</p> <ul style="list-style-type: none"> <li>- shows you heater statistics.</li> </ul>

			
<p>Temp Unit</p> <ul style="list-style-type: none"> <li>- select temperature unit Celcius / Fahrenheit.</li> </ul>	<p>Connections</p> <ul style="list-style-type: none"> <li>- clear all bonded mobile phone devices.</li> </ul>	<p>Clear Lock</p> <ul style="list-style-type: none"> <li>- if error message "Device locked" is shown and lock indicator is displayed.</li> <li>- CHECK the heater before removing locked state by selecting "Clear Lock"</li> </ul>	<p>ERROR message</p> <ul style="list-style-type: none"> <li>- If something goes wrong, there are many error messages, and they are shown immediately when error happens.</li> <li>- If there are three errors in a row the Wallas unit will be Locked for safety reasons.</li> </ul>

## Control Panel functions Combi/ 40 EA


### Control Panel functions in Wallas Combi heater

Control panel has COMBI and VENTILATION functionalities, when it is connected into Wallas Combi heater.  
(Combined AIR & WATER heater.)

			
<p>Combi Select combi mode by pressing button.</p>	<p>Scroll Temperature target and select it , to set the air temperature target. Room temperature is visible bellow. Water temperature is visible bellow.</p>	<p>Note: Water temperature safety limit is preset and can not be adjusted.</p>	

In other functionalities please refer to AIR heater instructions. ( Note! Manual mode is not available in COMBI heater)

### Control Panel functions in Wallas 40EA heater

	
<p>Wallas 40 EA heater is used only with thermostat mode. User is able to adjust wanted room temperature and secondary water pump when installed.</p>	

# Wallas Remote application and Control Panel connection

## Local Connection

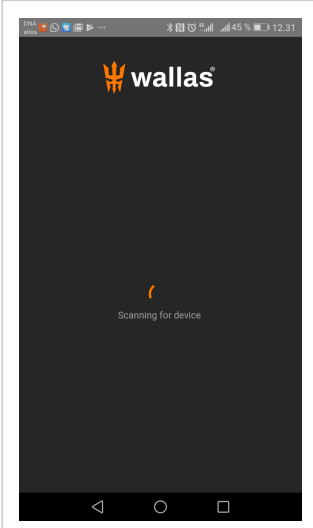
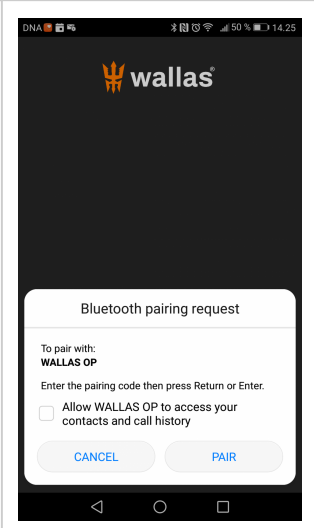
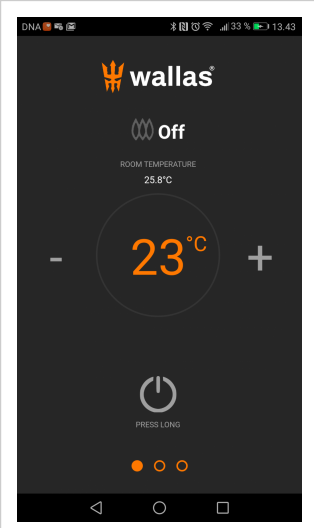
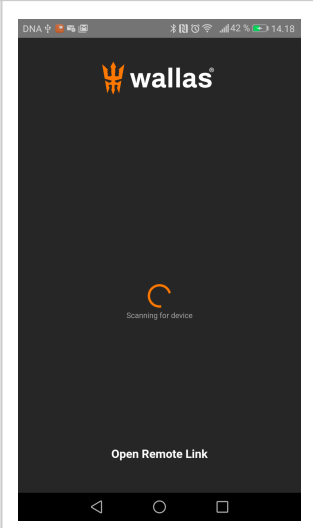
Control Panel can be connected into Mobile Application with local connection.

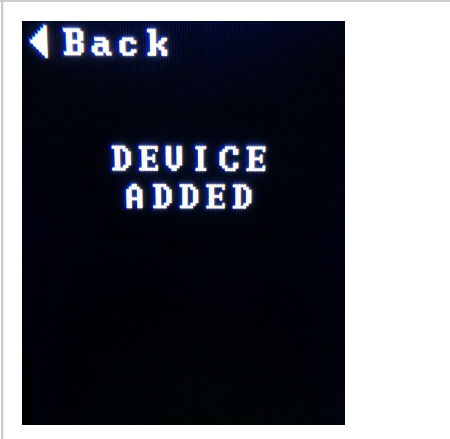
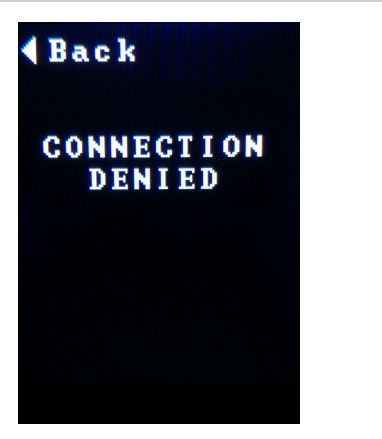
You can then operate you heater with the "**Wallas Remote** " application.

First you need to download the Wallas Remote application to your mobile device from your application store.

When you start **Wallas Remote** first time it will search if there is Wallas heater with intelligent Control Panel in range.

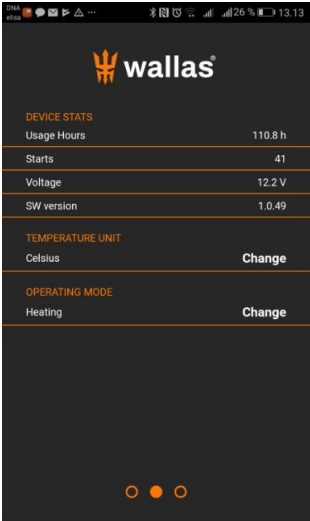
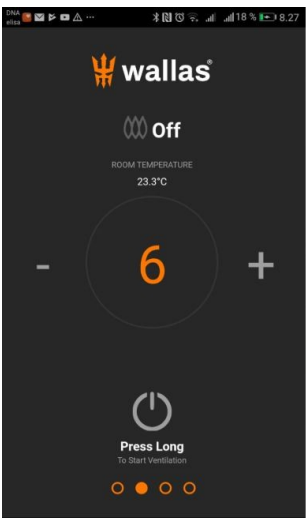
When it locates heater it will start heater and application bonding process.

			
<p>First time connected application search for near by heater.</p>	<p>When heater is found : -fill PINCODE from Control Panel display. **</p>	<p>After connection is ready: -Set room temperature target. -Start heater.</p>	<p>When you start application and heater is not in range you can operate heater by opening the "remote link". Note: your heater must be connected to the internet.</p>

		
---	---	---

<p>- Control panel will display pin code. **</p> <p>- you need to give this pin code into your mobile device.</p>	<p>Control panel will tell when bonding was successful.</p>	<p>- If connection is not free ( someone else is already using the connection) remove old connection first from Control Panel . ( settings / connections/ remove )</p>
---	---	--

After pairing mobile application and control panel will remember connection when you re-enter into operating range.

			
<p>Heater OPERATING MODE can be selected from application. Select: "Heating" or "Ventilation".</p>	<p>Application ventilation power can be adjusted 1 to 6 (highest). Note . Heater must be stopped before changing operation mode from ventilation to heating.</p>		

## WiFi Connection

Control panel can be connected to the internet with WiFi connection.

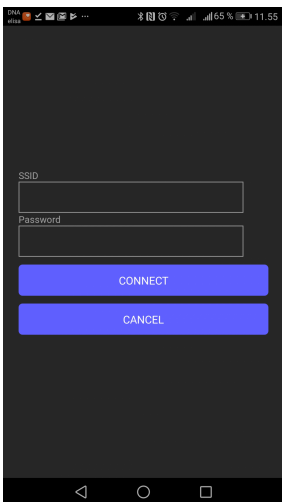
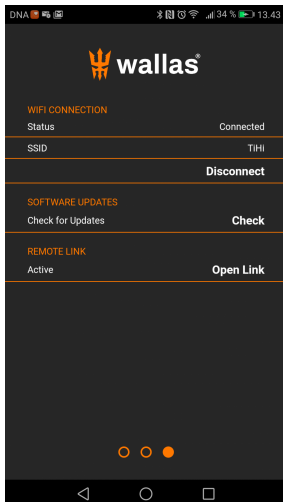
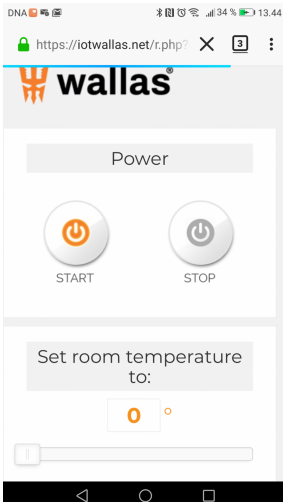
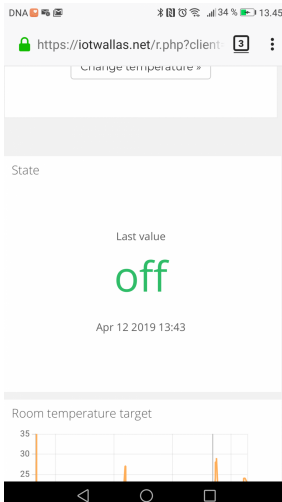
You can then operate your heater with the "**Wallas Remote**" application through Internet.


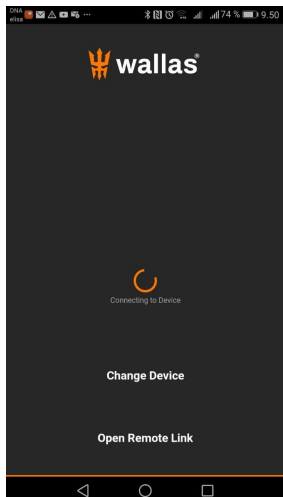
Wifi connection is created through Wallas Remote application . ( Local connection between application and Control Panel must be available before setup)

When you first time select connecting, application will ask SSID and Password. Application will share this information with Control Panel.

NOTE! If you sell heater or give it away you need to clear Wifi settings. ( SSID="empty", password="empty") . You should remove wallas application from your device.



			
<p>Feed your internet connection details.</p>	<p>When internet connection is finalized status will be "connected" After few minutes "REMOTE LINK" will appear .</p>	<p>"REMOTE LINK " display will connect to internet panel. You can : - set room temperature target - start /stop your heater Note: heater start and stop takes several minutes.</p>	<p>You can see when heater was last connected into internet, and what is the heater state. You can see some statistics of your heater. Available graphs will vary depending of your heater model.</p>

			
<p>Note! Before you can operate heater, you need to read safety warnings and agree.</p>	<p>When you start application and heater is not in range you can operate heater by opening the "Remote Link". If heater is not found after several attempts " Change Device" link appears. Change Device link will clear heater pairing information from application, and you may connect application into other Wallas heater.</p>		

Wallas reserves right to develop application useability and features.

**Connections tips:**

1. Read your mobile device user guide how connections and Wifi connections are managed in your device.
2. Make sure your mobile device local connections and WIFI is allowed in you mobile device . ( flight mode is OFF)

- 
3. Your mobile device is not in power save mode and location permission is given to Wallas application.
  4. Check that heater is connected into power and Control panel is connected into heater. ( Rotate panel control ring , lights on)
  5. Distance between Mobile device and Control Panel is not too long.
  6. Control Panel is not in use by other person, ( only one local connection can operate panel at time.)
  7. If your mobile device has already connection into heater it can not create new before old connection is removed from your device. In some phone models this has to be made manually. Remove "WALLAS OP" from your phones paired BT devices list (note there might be several OP pairings in mobile device list, remove all) and restart Bluetooth before new pairing is possible. This may be the case if control panel pairing code only blinks fast and your mobile device is repeating the connection requests.
  8. Change connection to other Wallas heater.
    - close Wallas remote application .
    - remove old connections from your mobile device bluetooth paired devices list. Restart your devices bluetooth.
    - if there is no other users for new Wallas heater you can select Control panel menu Settings/ Connections/remove all
    - Restart application. When/if "Change Device " link appears (30-60 sec) press the link.
    - Wait connection procedure to finalize. Note in some phone models Pairing request will open in background info window. ( See your mobile devices user guide.)

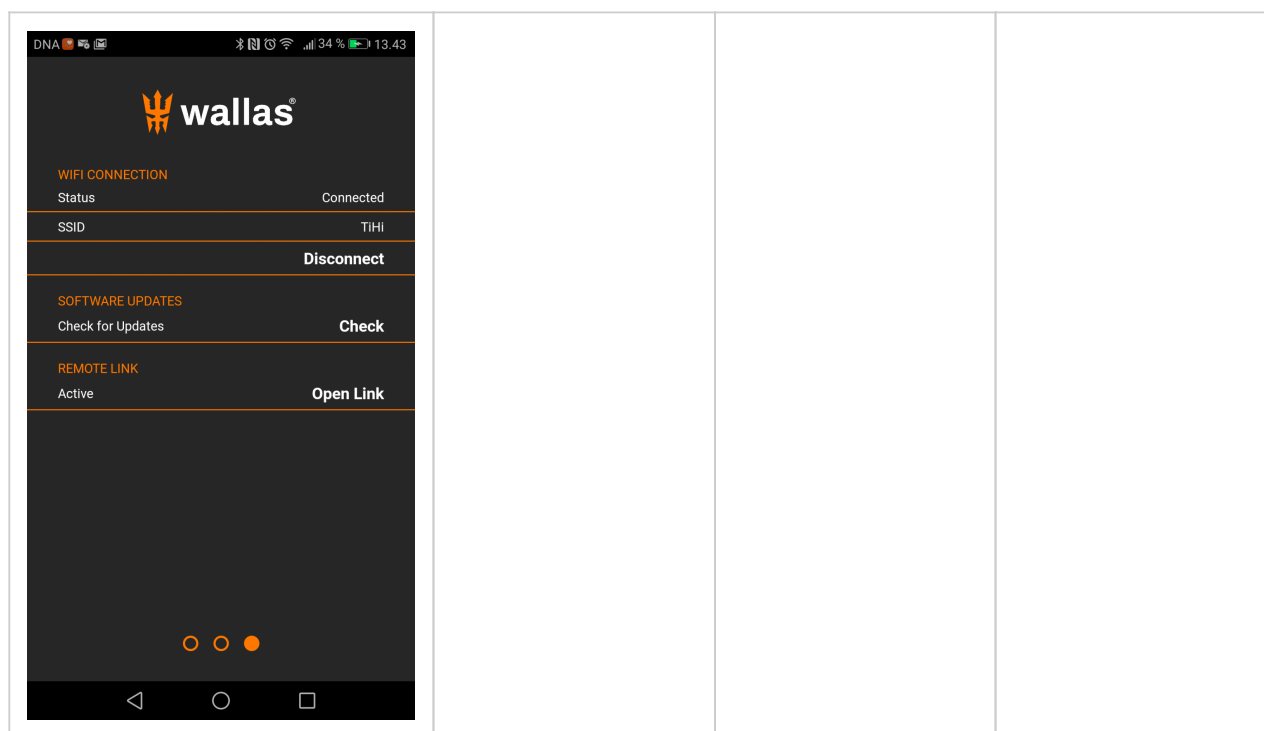
## SW update

Before SW update:

- check the power
- check the WiFi and internet connection
- be prepared to disconnect control panel cable, or heater power to make master reset to the system.

SW update is complicated process, and something may happen during the update, example :sudden power brakedown, network failure, etc.

Therefore it is forbidden to start SW update for control panel if Wallas heater is the only heat source and being unable to start heater would create a danger.



<p>For SW update make sure you have strong and reliable wifi signal. Wifi HotSpot name (SSID) is visible in application page and status is "Connected".</p> <p>It is advised to turn the heater "OFF" before starting the update. Update may take up to 6 minutes, depending on network and connection.</p>	<p>If new SW version is available "Update link" will appear into display. Select update. Do not close application or heater power while update in ongoing. Control panel display will close and start a few times during the update. After the update is done, control panel will start and application will reconnect to panel. Note in some phone model you may have to re-bonding after SW update again.</p>	<p>Wait 5 minutes update to finish.</p> <p>If update is not succesfull, file error: - start update again after few minutes</p> <p>If update is stopped during download ( % count is no 100%) -close application -restart you device BT. - start update again.</p> <p>if update is not able to finish: - find different place, where wifi signal is better or wifi hotspot has better connection.</p> <p>If control panel is jammed during update , disconnect panel cable and try again after few minutes.</p>	
---	---	--	--